



Arkansas Department of Health

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June 14, 2021

Memo

To: File

From: Jake Chatman
District 4 Engineer

Re: Humphrey Waterworks

On Thursday June 10, 2021 I went to Humphrey to check the chlorine residual, iron concentration, manganese concentration, and to collect bacteriological samples.

I met with the operator, Jimmy Stewart, at the treatment plant. He informed me that the aerator was not operating. Jones Hydro Service was on site working on the aerator. Mayor Cleveland Hatch stopped in to let me know that he was scheduling a site visit from Landmark Engineering to assess the filters, specifically the media.

The test results from the site visit are below.

Location	Chlorine (mg/L)	Iron (mg/L)	Manganese (mg/L)
WTP Sink	2.72	0.84	0.183
Filter	0.7	2.56	-
Post Filter	0.78	0.78	-
505 S. Division St	4.12	1.04	0.316
408 N. Division St	3.96	0.58	0.179

Elevated concentrations of iron and manganese are expected due to the failure to aerate. I informed the operator that increasing the pre-filtration chlorine while the aerator is down will better oxidize the metals and help remove them during filtration.

The results of the bacteriological tests collected at 505 S. Division St. and 408 N. Division St. are total coliform and E.coli absent.